

## Working Group #3: Emergency Alert System

Co-Chairs:

Clay Freinwald, Clay Freinwald Technical Services Larry Walke, National Association of Broadcasters

## Working Group Objectives

This Working Group has been tasked with developing recommendations for the CSRIC's consideration regarding actions the FCC should take to improve the Emergency Alert System.

- ▶ **State EAS Plans**. Recommend steps to improve the process for developing and submitting state EAS plans to the Commission.
  - Final Report: Submitted March 2014.
- Nationwide EAS Test/Operational Issues. Address other EAS-related issues as assigned to CSRIC by the FCC, including FCC NPRM.
  - Final Report: Submitted June 2014.
- **EAS Security**. Recommend actions to improve promote the security of the EAS.
  - EAS Cybersecurity Best Practices: Initial Report Submitted June 2014.

### Participants: 42 Members (as of March 18, 2015)

- Adrienne Abbott
- John Archer
- John Benedict
- Ron Boyer
- Ben Brinitzer
- Ted Buehner
- Roswell Clark
- Kimberly Culp
- Edward Czarnecki
- David Donovan
- Chris Fine
- Les Garrenton
- Mike Gerber
- Suzanne Goucher
- Neil Graves
- Craig Hoden
- Chris Homer
- Steve Johnson
- Alfred Kenyon
- Wayne Luplow
- Bruce McFarlane
- Dan Mettler

Nevada EAS Chair

SiriusXM

CenturyLink

Boyer Broadband

Society of Broadcast Engineers

**National Weather Service** 

Cox Media Group

Larimer Emergency Telephone Authority

**Monroe Electronics** 

NY State Association of Broadcasters

Goldman Sachs

LIN Media

**NOAA** 

Maine Association of Broadcasters

SNR Systems (formerly FEMA IPAWS)

NOAA

**Public Broadcasting Service** 

Johnson Telecom

**FEMA IPAWS** 

LGE/Zenith

Fairfax County

Clear Channel Media + Entertainment

## Participants (cont'd)

- David Munson
- Brian Oliger
- Darryl Parker
- Rich Parker
- Jerry Parkins
- Efraim Petel
- Richard Perlotto
- Joey Peters
- Peter Poulos
- Harold Price
- Richard Rudman
- Francisco Sanchez, Jr.
- Tim Schott
- Andy Scott
- Bill Schully
- Gary Smith
- Matthew Straeb
- Gary Timm
- Leonardo Velazquez
- Michael Watson
- Kelly Williams
- Reed Wilson

FCC Liaison

**Hubbard Radio/WTOP** 

TFT, Inc.

Vermont Public Radio

Comcast Cable

AtHoc, Inc.

Shadowserver Foundation

MyStateUSA, Inc.

Citi

Sage Alerting Systems

**Broadcast Warning Working Group** 

Harris County (TX) Office of Homeland Security

NOAA

NCTA

DirecTV

KTAR Phoenix, Arizona SECC

Global Security Systems/ALERT FM

SRA International

AT&T U-Verse

**Gray Television Group** 

NAB

Belo Corp.

# WG3: EAS Cybersecurity Initial Report

- Submitted to CSRIC in June 2014.
- Report addressed needs for information assurance and security controls throughout the EAS system.
- Recommended Best Practices for EAS cyber hygiene.
  - EAS Participant Networks and Operations
  - EAS Alert Originators
  - EAS Device Manufacturers

# WG3: EAS Security Phase Two

- Develop recommendations on how the Commission can promote and facilitate awareness and adoption of the "best practices" guidelines contained in the WG3 Initial report.
- Particular focus on smaller-sized and rural entities.

## WG3: EAS Security Subcommittee

#### Phase Two Co-Chairs:

Gary Smith Cherry Creek Radio

Larry Walke National Association of Broadcasters

#### Process

- ➤ Leadership
- Expand Membership
- Collaborative, inclusive approach
- ➤ Weekly Conference Calls

#### Scope of Project

- > Focus on education and outreach
- > Refrain from creating new content
- Consideration of all players in EAS ecosystem
- Review of all potential avenues for contact with EAS participants.

- Purpose
  - >EAS = critical public warning system.
  - Legacy EAS/daisy chain system.
  - Integrated Public Alert and Warning System (IPAWS).
    - Digital EAS via IP networks direct to EAS participants.
  - Vulnerabilities
    - > Human error
    - Intentional disruptions: viruses, malware, false alerts.

- Minimize EAS security risks.
  - > Step One. Creation of general Best Practices that are flexible and adaptable to various enterprises.
  - > Step Two. Outreach, education, awareness.
  - ➤ Step Three. Implementation of Best Practices.
- > Focus on smaller-sized and rural entities.
  - > End of legacy EAS daisy chain.
  - > Most vulnerable to cyber intrusions.
  - > Limited resources cause unique challenges.
    - > Access to information.
    - Lack of full-time engineering staff, or those with cyber expertise.
    - Costs of preventative measures.

## WG3: EAS Security Recommendations Government

#### > FCC

- ➤ Use WG3 Initial Report to draft a series of user-friendly Best Practices tailored to subsets of EAS ecosystem (*e.g.*, radio, cable, rural).
- Prominently display Best Practices on FCC website, highlighted in FCC documents.
- > Revise EAS Handbooks to include cybersecurity guidance.
- > FCC Webinars and Webcasts.
- > FCC Public Advisories and Notices.

#### > FEMA

- Educate alert originators.
- > Alerting Best Practices Webinar Series
- > Alert Origination Service Provider Webinar Series.
- > Additional webinar targeted to EAS participants.

## WG3: EAS Security Recommendations Industry

- FCC should <u>invite</u> industry organizations to extend efforts through targeted outreach to their constituencies.
- Outreach methods:
  - >Webcasts, webinars, teleconferences.
    - >Training, professional certification.
  - >Conventions, conferences, policy forums.
    - >FCC experts.
  - >Newsletters, email, social media.
    - Cybersecurity web pages, FCC links.
  - >Trade publications.
- Cybersecurity Awareness Month.

- Final Recommendation:
  - >Cybersecurity threats to EAS will continue to evolve.
  - FCC must periodically assess the content and process of EAS security outreach.
  - FCC should strive to continuously refine and improve its efforts to educate EAS participants on cyber risks.



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